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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/552,799	10/11/2005	Bong-Hoon Lee	11281-085-999	4523
20583	7590	05/25/2007	EXAMINER	
JONES DAY 222 EAST 41ST ST NEW YORK, NY 10017			WILSON, LEE D	
ART UNIT		PAPER NUMBER		
3723				
MAIL DATE		DELIVERY MODE		
05/25/2007		PAPER		

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No.	Applicant(s)	
	10/552,799	LEE, BONG-HOON	
	Examiner	Art Unit	
	LEE D. WILSON	3723	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) Responsive to communication(s) filed on _____.
- 2a) This action is FINAL. 2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) Claim(s) 1-8 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) Claim(s) _____ is/are allowed.
- 6) Claim(s) 1-8 is/are rejected.
- 7) Claim(s) _____ is/are objected to.
- 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) Notice of References Cited (PTO-892)
- 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date 10/11/05.
- 4) Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____.
- 5) Notice of Informal Patent Application
- 6) Other: _____.

DETAILED ACTION

Specification

1. Applicant is reminded of the proper language and format for an abstract of the disclosure.

The abstract should be in narrative form and generally limited to a **single paragraph on a separate sheet** within the range of 50 to 150 words. It is important that the abstract not exceed 150 words in length since the space provided for the abstract on the computer tape used by the printer is limited. The form and legal phraseology often used in patent claims, such as "means" and "said," should be avoided. The abstract should describe the disclosure sufficiently to assist readers in deciding whether there is a need for consulting the full patent text for details.

The language should be clear and concise and should not repeat information given in the title. It should avoid using phrases which can be implied, such as, "The disclosure concerns," "The disclosure defined by this invention," "The disclosure describes," etc.

2. The abstract of the disclosure is objected to because the abstract needs to be on a separate paper. Correction is required. See MPEP § 608.01(b).

Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

4. Claims 1-8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Sano et al (5664763) in view of Kipnes (3525973) and Nonaka et al (5328273).

- a. Sano discloses the claimed invention except for a fiber sealing unit.
- b. Kipnes (3525973) and Nonaka et al (5328273) discloses a device having a fiber sealing unit with a Teflon insulated coupling and Nonaka teaches that

Teflon has fibers which are used as an alternative coupling using alternative materials.

c. It would have been obvious to one having ordinary skill in the art at the time the invention was made to have modified the Sano et al device by providing a Teflon fiber insulated coupling as taught by Kipnes (3525973) and Nonaka et al (5328273) which are used as an alternative coupling using alternative materials.

5. Claims 1-8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Baker (6364290) in view of Kipnes (3525973) and Nonaka et al (5328273).

d. Baker discloses the claimed invention except for a fiber sealing unit.

e. Kipnes (3525973) and Nonaka et al (5328273) discloses a device having a fiber sealing unit with a Teflon insulated coupling and Nonaka teaches that Teflon has fibers which are used as an alternative coupling using alternative materials.

It would have been obvious to one having ordinary skill in the art at the time the invention was made to have modified the Baker device by providing a Teflon fiber insulated coupling as taught by Kipnes (3525973) and Nonaka et al (5328273) which are used as an alternative coupling using alternative materials.

6. Claims 1-8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Rivard (6402123) in view of Kipnes (3525973) and Nonaka et al (5328273).

f. Rivard discloses the claimed invention except for a fiber sealing unit.

g. Kipnes (3525973) and Nonaka et al (5328273) discloses a device having a fiber sealing unit with a Teflon insulated coupling and Nonaka teaches that

Teflon has fibers which are used as an alternative coupling using alternative materials.

It would have been obvious to one having ordinary skill in the art at the time the invention was made to have modified the Rivard device by providing a Teflon fiber insulated coupling as taught by Kipnes (3525973) and Nonaka et al (5328273) which are used as an alternative coupling using alternative materials.

Conclusion

7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. The 892 form discloses prior art being made of record.

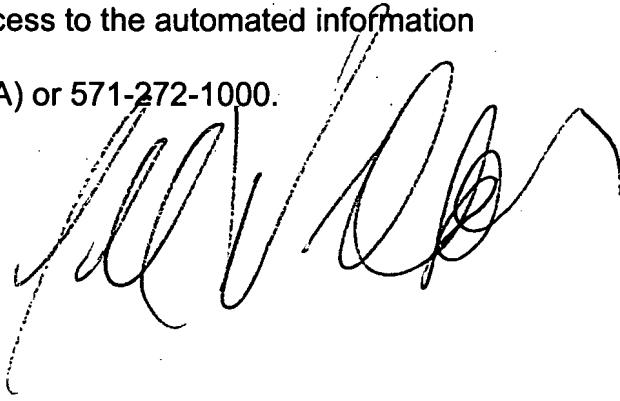
Any inquiry concerning this communication or earlier communications from the examiner should be directed to LEE D. WILSON whose telephone number is 571-272-4499. The examiner can normally be reached on M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, JOSEPH HAIL can be reached on 571-272-4485. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Ldw

May 23, 2007



LEE D. WILSON
PRIMARY EXAMINER